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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/223,431	1	12/30/1998	DANIEL S. KWOH	33853/PYI/II	1638
23363	7590	07/29/2003			
· ·		R & HALE, LLP	EXAMINER		
SUITE 500		DO BOULEVARD	CHIEU, PO LIN		
PASADEŅA	PASADEŅA, CA 91105			ART UNIT	PAPER NUMBER
				2615	14
				DATE MAILED: 07/29/2003	,

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summers	09/223,431	KWOH ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication and	Polin Chieu	2615				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, ma within the statutory minimum of ill apply and will expire SIX (6) No cause the application to becom	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. BABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 15 h	<u>1ay 2003</u> .					
2a)☐ This action is FINAL . 2b)⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Indexistence of Claims	=x рапе Quayle, 1935	C.D. 11, 453 O.G. 213.				
4)⊠ Claim(s) <u>1-3,7,10-15,17,19-22 and 25-72</u> is/ard	e pending in the applic	ation.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-3,7,10-15,17,19-22 and 25-72</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner		out the Evereiner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on		- · ·				
If approved, corrected drawings are required in rep		a disapproved by the Examinor.				
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) S Patent and Trademark Office	5) 🔲 Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152) .				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1 and 29 have been considered but are most in view of the new ground(s) of rejection.

Regarding claims 48, 50, and 62, the Applicant argues that Yamagami is a still picture recording device that does not record video; and Yamagami does not teach converting an audio signal into textual titles. Yamagami discloses recording moving images (col. 7, line 56 – col. 8, line 5); and converting audio signals into a textual title (col. 9, lines 25-30). Note: In Yamagami "audio recognition" refers to the process of converting audio to text (col. 11, lines 52-64). The Applicant argues that Yamagami does not display textual titles; it displays icons representing stored text files. The examiner believes the text icons contain at least part of the text because in the case that a file only contains text or text and audio there would be no way to distinguish between files since there is not an image icon. For example, in figure 5 of Yamagami two files only contain text data. If the text icon is simply an icon without text, how is the user able to determine which file is which? Thereby defeating the purpose of the display (i.e. having a display to provide easy an quick searching for a recorded file). Without actual text in the icon the user would have to select a text icon; and if the file was not the desired file, the user would have to go back an select another text icon. thereby making the search for a file neither easy nor quick.

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Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 20, 22, 25-29, 41, 43-47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sezan et al (5,956,458) in view of Henmi et al (5,390,027), Yamagami (6,334,025), and Lemaire et al (5,444,768).

Regarding claims 1, 22, 25-26, 29, and 43-45 Sezan et al discloses recording video programs on a recording medium (fig. 1); generating audio signals of titles for the recorded programs (92, fig. 4); displaying on a screen a directory of the video programs recorded on the recording medium (fig. 4); and selecting one of the video programs from the directory (col. 4, lines 1-7). However, Sezan et al does not disclose converting the audio signals to textual title signals and storing the textual title signals; converting a stored textual title signal corresponding to the selected video program to an audio signal to apprise the user of the voice title of the selected video program; and displaying the voice title designations or textual titles, wherein the tiles are alphanumeric textual signals.

Henmi et al teaches displaying a directory of the video programs recorded on the recording medium, wherein the directory includes textual titles associated with the video programs.

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Lemaire et al teaches converting text to an audio signal (col. 9, lines 55-67).

Yamagami teaches converting the audio signals to textual title signals and storing the textual title signals (col. 9, lines 25-30); and displaying both images and text in a directory.

It would have been highly desirable to have a text title so that additional data is provided in the directory so that the video data easier to identify. It would have been highly desirable to convert the audio to text to reduce the memory capacity necessary for annotating (col. 9, lines 25-30). It would have been highly desirable to convert the text to audio so that the user could hear the title in the case that the title was difficult to read (e.g. the monitor was small or the title was in a foreign language).

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention have textual titles in the directory; convert the audio to text; and convert the text to audio in the device of Sezan et al.

Regarding claims 20 and 41, Sezan et al discloses audio titles (col. 5, lines 1-8). However, Sezan et al does not disclose how the audio titles are created.

Yamagami teaches the use of an audio input (20) in figure 1. The examiner takes Official Notice that microphones are a common device used to input audio.

It would have been highly desirable to use a microphone to generate the audio signal since no method for inputting the audio titles is disclose by Sezan et al, and a microphone is commonly known in the art.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use a microphone in the device of Sezan et al.

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Regarding claims 27-28 and 46-47, Sezan et al discloses storing the alphanumeric textual titles in a memory in cassette (MIC). However, Sezan et al does not disclose that the MIC is a RAM; and the textual titles are stored in a memory location separate from the directory of video programs.

The examiner takes Official Notice that RAMs are well known memory devices in the art. Therefore, it would have been obvious to a person of ordinary skill in the art to use a RAM as the MIC. Further the MIC is a separate memory from the tape, which stores the directory (col. 3, lines 41-52).

It would have been highly desirable to use a RAM type memory for the MIC because RAMs are cheap and allow quick access to any data in the memory.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use a RAM to store the textual titles separately in the device of Sezan et al.

4. Claims 2-3, 21, 30-31, and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sezan et al in view of Henmi et al, Yamagami, Lemaire et al, and Doyle (6,058,239).

Regarding claims 2-3, 21, 30-31, and 42, Sezan et al does not disclose that the audio signal is generated and converted to a textual title while the video program is recorded by speaking into a microphone.

As discussed previously, a microphone is well known in the art as an audio input device. Therefore, it would have been obvious to use a microphone as an audio input.

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Doyle teaches generating an audio signal while recording the video program in fig. 3. Entering the audio title is part of the recording process of recording the video program; therefore, the generation of the audio signal is considered to occur while the video program is being recorded. The circuit that converts audio to text cannot be part of the image processing circuit because processing of audio and video is different. Since video recording does not require the circuit that converts audio to text, it would have been obvious to convert the audio to text while recording the video program because the circuit would be available and the audio is entered while recording the video program.

It would have been highly desirable to generate audio titles by speaking into a microphone and converting the audio titles to text titles while recording the video program so that the device does not require more time after the recording of the program is completed to add the audio and text titles.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to generate audio using a microphone and converting them to text titles for recording while the video program is recording in the device of Sezan et al.

5. Claims 7, 10-15, 17, 19, and 32-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sezan et al in view of Henmi et al, Yamagami, Lemaire et al, and Ohno et al (5,761,371).

Regarding claim 7, 10-15, 17, 19, and 32-40, Sezan et al discloses other data including the start position of the recorded program (col. 3, lines 13-28) and voice title designations (col. 5, lines 1-8). However, Sezan et al does not disclose transferring the

textual title signals to a RAM for later use to select programs for playback; recording other data with the titles, wherein the other data includes length of the recorded program and day and time of recording; positioning the recording medium at the beginning of a video program; and playing the selected program.

Ohno et al teaches transferring the textual titles to a library memory in figure 5 for later use to select programs for playback (S22, fig. 7); recording other data including length and day and time of recording (fig. 5); positioning the recording medium at the beginning of a video program (S19, fig. 7); and playing the selected program (S14 and S22, fig. 7).

As discussed previously RAMs are well known in the art. The type of memory used for the library memory in Ohno et al and Sezan et al is not stated explicitly.

Therefore, it would have been obvious to use any known type of memory available.

It would have been highly desirable to transfer the textual titles to a library memory with other data including length and day and time of recording; and playing back the program from the beginning when it was selected to allow the programs to be easily identified, program data to be easily accessed, and playback the program without the user having to manually locate the program. The additional other data allows the programs to be further distinguished (e.g. in the case that two programs have the same title) by the length and day and time of recording.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to include length, day and time data in the other data; transfer

the textual titles to a RAM; and playback the selected title when a selection is made in the device of Sezan et al.

6. Claim 48 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen et al (5,488,409) in view of Yamagami.

Yuen et al discloses a RAM (33); a video program control logic controller (21); a microprocessor RAM controller coupled to the RAM and the video program recording control logic controller (31) in figure 1. However, Yuen et al does not disclose an audio input device coupled to the video program recording logic controller and responsive to audio signals; the RAM coupled to the video program recording logic controller through a voice recognition circuit, such that the audio signals are converted to textual signals by the voice recognition circuit under the control of the logic controller and stored in the RAM as textual signals corresponding the video programs.

Yamagami teaches an audio input device (20) that converts the audio signals to textual signals (col. 9, lines 25-30) corresponding to the video programs (fig. 5) by a voice recognition circuit and stored in a memory (fig. 8). It is not explicitly stated that the memory is a RAM; however, RAMs are well known in the art, as discussed previously so it would have been obvious to use a RAM. Yamagami does not disclose the specific coupling that the claims recite. However, it is obvious to one of ordinary skill in the art that many different circuit couplings can be used. For example, the audio input device, voice recognition circuit, RAM, and program recording logic controller could be coupled to the microprocessor, wherein the microprocessor routes the data to

the desired circuit. Since the microprocessor can direct data to any of the connected circuits they are considered to be coupled together.

It would have been highly desirable to convert audio signals to textual signals so that textual titles can be created without having to type in titles. It would have been highly desirable to have the various circuits coupled together so that data can be routed to the desired circuit easily and quickly.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to convert audio titles to textual signals and record the text to a RAM in the device of Yuen et al.

7. Claim 49 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yuen et al in view of Yamagami and Lemaire et al.

Yuen et al does not disclose a voice synthesizer coupled between the RAM and the video program recording control logic controller so that the textual signals are converted under the control of the RAM controller to an audio signal corresponding to video programs recorded on the recording medium by the voice synthesizer and are output to the audio output device under the control of the video program recording control logic controller.

Lemaire et al teaches converting text to an audio signal (col. 9, lines 55-67). As discussed previously, it is well known in the art to connect various circuits to a microprocessor so that data routing is controlled by the microprocessor. All the circuits in the system are considered to be coupled with each other; therefore, the voice

synthesizer can be considered to be coupled between the RAM and the video program recording control logic controller.

It would have been highly desirable to convert text titles to audio signals so that in the case that text titles are illegible (e.g. because of a small display or they are in a different language) the user can hear the titles.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to convert text titles to audio data in the device of Yuen et al.

8. Claims 50, 57, 59-62, 68, and 70-72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sezan et al in view of Yamagami.

Regarding claims 50 and 62, Sezan et al discloses a means for recording video programs on a recording medium (fig. 1) and for displaying on a screen a directory of the video programs recorded (fig. 4). However, Sezan et al does not disclose that the directory includes textual titles; and audio processing means, coupled to the means for recording video programs, for generating audio signals of titles for the recorded programs, converting the audio signals to textual title signal, and storing the textual title signals.

Yamagami teaches a directory including textual titles (fig. 5); and audio processing means (20), coupled to the means for recording video programs (fig. 1), for generating audio signals of titles for the recorded programs (fig. 5), converting the audio signals to textual title signals (col. 9, lines 25-30), and storing the textual title signals (fig. 8).

It would have been highly desirable to have a directory including textual titles; and audio processing means so that textual titles can be created without the user having to type in textual titles.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to have a directory including textual titles; and audio processing means in the device of Sezan et al.

Regarding claims 57, 59-61, 68, and 70-72, Sezan et al does not disclose generating audio titles using a microphone; the textual titles are alphanumeric textual signals; and storing the signals in a RAM, wherein the memory is separate from the storage location of the directory.

As discussed previously, microphones are a well known audio input device, and RAMs are well known memory devices; therefore, they would have been obvious to use. Yamagami teaches that the textual titles are alphanumeric textual signals (col. 9, lines 25-30). Sezan et al discloses storing the audio titles in a MIC (col. 5, lines 1-8) separate from the directory of the video programs (col. 3, lines 41-52). Therefore, since the text is related to the audio it would have been obvious to record the text separate from the directory.

It would have been highly desirable to use a microphone and a RAM because the method for generating audio signals and storing the textual titles is not disclosed, and microphones and RAMs are well known method to perform the tasks. It would have been highly desirable to have an alphanumeric textual signal so that the textual titles

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can be recorded. It would have been highly desirable to record the text separate from the directory so that the textual titles can be easily retrieved.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to use a RAM and microphone; alphanumeric textual signals; and a separate memory in the device of Sezan et al.

9. Claims 51-52, 58, 63, and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sezan et al in view of Yamagami and Doyle.

Regarding claims 51-52, 58, 63, and 69, Sezan et al does not disclose that the audio signal is generated and converted to a textual title while the video program is recorded by speaking into a microphone.

As discussed previously, a microphone is well known in the art as an audio input device. Therefore, it would have been obvious to use a microphone as an audio input.

Doyle teaches generating an audio signal while recording the video program in fig. 3. Entering the audio title is part of the recording process of recording the video program; therefore, the generation of the audio signal is considered to occur while the video program is being recorded. The circuit that converts audio to text cannot be part of the image processing circuit because processing of audio and video is different. Since video recording does not require the circuit that converts audio to text, it would have been obvious to convert the audio to text while recording the video program because the circuit would be available and the audio is entered while recording the video program.

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It would have been highly desirable to generate audio titles by speaking into a microphone and converting the audio titles to text titles while recording the video program so that the device does not require more time after the recording of the program is completed to add the audio and text titles.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to generate audio using a microphone and converting them to text titles for recording while the video program is recording in the device of Sezan et al.

10. Claims 53-56 and 64-67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sezan et al in view of Yamagami and Ohno et al.

Regarding claims 53-56 and 64-67, Sezan et al discloses other data to assist in the playback of the recorded program (col. 3, lines 13-28). However, Sezan et al does not disclose transferring the textual title signals to a RAM for later use to select programs for playback; positioning the recording medium at the beginning of a video program; and playing the selected program.

Ohno et al teaches transferring the textual titles to a library memory in figure 5 for later use to select programs for playback (S22, fig. 7); positioning the recording medium at the beginning of a video program (S19, fig. 7); and playing the selected program (S14 and S22, fig. 7).

As discussed previously RAMs are well known in the art. The type of memory used for the library memory in Ohno et al and Sezan et al is not stated explicitly.

Therefore, it would have been obvious to use any known type of memory available.

It would have been highly desirable to transfer the textual titles to a library memory with other data to assist playback; and playing back the program from the beginning when it was selected to allow the programs to be easily identified, program data to be easily accessed, and playback the program without the user having to manually locate the program.

Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention to include other data to assist in playback; transfer the textual titles to a RAM; and playback the selected title when a selection is made in the device of Sezan et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Polin Chieu whose telephone number is (703) 308-6070. The examiner can normally be reached on M-Th 8:00 AM-6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew B. Christensen can be reached on (703) 308-9644. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

PC July 28, 2003